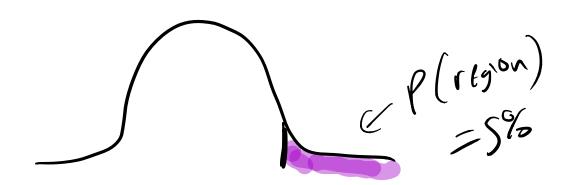
## Nuance about p-values

P-value definition

The probability under the null hypothesis of seeing an as extrere or nore extrere result.

If the wall hypothesis

then we falsely reject 5% 84 the time (if our synificance level is 5%).



	nultrue	null false
fail to reject		bud
reject	bad	
777		
(	wordorl	

Sending an innocent person
to juil"

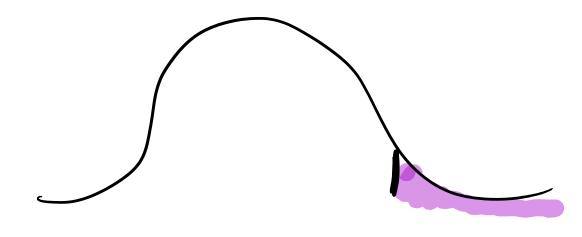
Even je Xre rul istre ul harl 5% charce of fulsely rejectivs. Probler of rultiple testirg, as ne do more tests probability of talse rejection increases even if nell 15 the.

## Two-Sizez testing

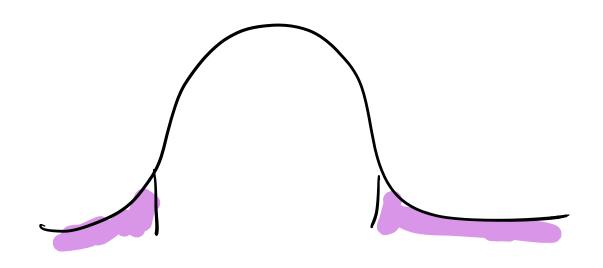
Betre:

Ho: 0=0.

H: a >0.



Ho: a=0. Hi. a=0.



p-value is doubled.

Q1 Worksheet

Ho: Employment status is inc. of mariful status Hi dependence. P(M|E) = P(M)E 867, 1097 116 1097 2097 (097) NM UN 11.94 11 94 11.94 NC 11.41

11 - 41

$$df = (n-1)(h-1)$$

$$= 2 \cdot 2 = 4$$